

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/965,555	BERRY, MICHELE J.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Luan Thai	2827	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the RCE filed 8/26/03.
  2. ☒ The allowed claim(s) is/are 1-13 and 23-35 (renumbered as 1-26, respectively).
  3. ☒ The drawings filed on 27 September 2001 are accepted by the Examiner.
  4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
      1. ☐ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \* Certified copies not received: \_\_\_\_\_.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
    - (a) ☐ The translation of the foreign language provisional application has been received.
  6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
  - (b) ☐ including changes required by the proposed drawing correction filed \_\_\_\_\_, which has been approved by the Examiner.
  - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892)  | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)          |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                      | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____             |
| 5 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. <u>8</u> . | 6 <input type="checkbox"/> Examiner's Amendment/Comment                             |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material   | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
|  | 9 <input type="checkbox"/> Other _____  |

### DETAILED ACTION

This Office action is responsive to the RCE filed on August 26, 2003.


1. Claims 1-13 and 23-35 are allowed and renumbered as 1-26, respectively.
2. The following is an examiner's statement of reasons for allowance: the prior art taken either singly or in combination fails to anticipate or fairly suggest the method steps:
  - a) attaching pins to the package substrate, through the polymer material by solder reflow, and allowing the polymer material to cure about solder joints associated with the pins, as recited in independent claims 1 and 23,
  - b) selectively applying an encapsulation material about solder joints associated with the individual pins, the encapsulation material to maintain a location of the individual pins on the package substrate during subsequent high temperature processing, as recited in independent claims 10 and 32; especially when these limitations are considered within the specific combination claimed.
3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luan Thai whose telephone number is (703) 308-1211. The examiner can normally be reached on 6:30 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (703) 308-1233. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0658.

Luan Thai  
September 29, 2003

<b>Issue Classification</b> 	Application No.	Applicant(s)	
	09/965,555	BERRY, MICHELE J.	
	Examiner	Art Unit	
	Luan Thai	2827	

ISSUE CLASSIFICATION										
ORIGINAL				CROSS REFERENCE(S)						
CLASS		SUBCLASS		CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					
438		612		438	613	615	118			
INTERNATIONAL CLASSIFICATION				257	697					
H	0	0	L	21/44						
				/						
				/						
				/						
				/						
Luan Thai 09/29/03								Total Claims Allowed: 26		
(Assistant Examiner) (Date)				(Primary Examiner) (Date)				O.G. Print Claim(s)	O.G. Print Fig.	
								1	4&5	

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant				<input type="checkbox"/> CPA				<input type="checkbox"/> T.D.				<input type="checkbox"/> R.1.47			
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original		
1	1	22	31		61		91		121		151		181		
2	2	23	32		62		92		122		152		182		
3	3	24	33		63		93		123		153		183		
4	4	25	34		64		94		124		154		184		
5	5	26	35		65		95		125		155		185		
6	6		36		66		96		126		156		186		
7	7		37		67		97		127		157		187		
8	8		38		68		98		128		158		188		
9	9		39		69		99		129		159		189		
10	10		40		70		100		130		160		190		
11	11		41		71		101		131		161		191		
12	12		42		72		102		132		162		192		
13	13		43		73		103		133		163		193		
	14		44		74		104		134		164		194		
	15		45		75		105		135		165		195		
	16		46		76		106		136		166		196		
	17		47		77		107		137		167		197		
	18		48		78		108		138		168		198		
	19		49		79		109		139		169		199		
	20		50		80		110		140		170		200		
	21		51		81		111		141		171		201		
	22		52		82		112		142		172		202		
14	23		53		83		113		143		173		203		
15	24		54		84		114		144		174		204		
16	25		55		85		115		145		175		205		
17	26		56		86		116		146		176		206		
18	27		57		87		117		147		177		207		
19	28		58		88		118		148		178		208		
20	29		59		89		119		149		179		209		
21	30		60		90		120		150		180		210		

**Search Notes**

Application No.

09/965,555

Examiner

Luan Thai

Applicant(s)

BERRY, MICHELE J.

Art Unit

2827

**SEARCHED**

Class	Subclass	Date	Examiner
438	612	9/29/2003	LT
	613		
	615		
	118		
257	697		

**INTERFERENCE SEARCHED**

Class	Subclass	Date	Examiner
438	612-613	9/29/2003	LT
	615		
	118		
257/697		9/29/2003	

**SEARCH NOTES  
(INCLUDING SEARCH STRATEGY)**

	DATE	EXMR
EAST search updated	9/29/2003	LT